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Figure 1

HSPDE1A	-----MGSSATEIEEELNTTFKYLTGEQTEKMWQLRSLGI-----LRCLVKQLERGDV	47
HSPDE1B	MELSPPRPPEMLEESDCPSPLELKSAPSKMWKLRSL-----LRYMVKQLENGEI	51
HSPDE1C	----MESPTKEIEEFESNSLYLQPEQIEKIWLRLRGLRKYKTSQRRLSLVKQLERGEA	56
		*.. : ** :
HSPDE1A	NVVDLKKNIEYAASVLEAVYIDETRLLDTEDELSDIQTDSPSEVRDWLASTFTTRKMGM	107
HSPDE1B	NIEELKKNLEYTASLLEAVYIDETROILDTEDELQELRSDAVPSEVRDWLASTFTQARA	111
HSPDE1C	SVVDLKNLEYAAATVLESVYIDETRLLDTEDELSDIQSDAVPSEVRDWLASTFTTRQMGM	116
		. : *****:
HSPDE1A	TKKKPEEKPKFRSIVHAVQAGIFVERMYRKTYHVMGLAYPAATIVTLKDVDKWSFDVFAL	167
HSPDE1B	KGRRAEEKPKFRSIVHAVQAGIFVERMFRTYTSTVGPTYSTAVLNCLNLDLWCDFDVFL	171
HSPDE1C	MLRRSDEKPRFKSIVHAVQAGIFVERMYRRTSNMGLSYPPAVIEALKDVKWSFDVFSL	176
		:...*:.....** : : * ..*
HSPDE1A	NEASGEHSLKFMIYELTRYDLINRFKIPVSCLITFAEALEVGYSKYNPYHNLIHAADV	227
HSPDE1B	NQAADDHALRTIVFELLTRHNILSRFKIPTVFLMSFLDALLETGYGKYKNPYHNQIHAADV	231
HSPDE1C	NEASGDHALKFIFYELLTRYDLISRFKIPISALVSFEAELEVGYSKHKNPYHNLMHAADV	236
		*::.:***: :..*:*:*:*.****** :*:*:*:*:*:***** :*****
HSPDE1A	TQTVHYIMLHTGIMHWLTEILEILAMVFAAAIIHDYEHTGTNNFHIQTRS DVAIL INDRSV	287
HSPDE1B	TQTVHCFLLRGTGMVHCLSEIELLAIFAAAIIHDYEHTGTNNSFHQIKTSECAIV INDRSV	291
HSPDE1C	TQTVHYLLYKTGVANWLTELEIFAIIFSAIIHDYEHTGTNNFHIQTRSDPAIL INDRSV	296
		***** : : * : * : * : * : * : * : * : * : * : * : * : * : * : *
HSPDE1A	LLENHHVSAAYRLMQEEE-MNILINLSKDDWRDLRNLVIEVLSTDMSGHFQQIKNIRNSL	346
HSPDE1B	LLENHHISSVFLRMQDDE-MNIFINLTKDEFVELRALVIEMVLATDMSCHFQQVKTMTKTAL	350
HSPDE1C	LLENHHLAAYRLLQDDEMNILINLSKDDWREFRTLVIEMVMATDMSCHFQQIKAMKTAL	356
		*****:~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*
HSPDE1A	QQPEGIDRAKTMSLILHAADISHPAKSWKLHYRWTMALMEEFFLQGDKEAELGLFFSPLC	406
HSPDE1B	QQLERIDKP KALSLLLHAADISHPTAKQWL VHSRWTKALMEEFFRQGDKEAELGLFFSPLC	410
HSPDE1C	QQPEAIEPKALSLMLHTADISHPAKAWDLHRWTMSLLEE FFRQGDREAELGLFFSPLC	416
		** * ~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*
HSPDE1A	DRKSTMVAQS QIGFIDFIVEPTFSLLTDSTEKIVIPIEEASKAETS-----SYVASS	459
HSPDE1B	DRTSTLVAQS QIGFIDFIVEPTFSVLTDVAEKSVQPLADEDSKSKNQF-----SFQWRQPS	466
HSPDE1C	DRKSTMVAQSQVGFIDFIVEPTFTVL TDMTEKIVSPLIDETSQTGGTGQRRSSLNSISS	476
		..~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*~::~*
HSPDE1A	STTIVGLHIA-----DALRRSNTKGSMDSGYSYSPDYSLAAVDLKSFKNNL	504
HSPDE1B	LDVEVGDPNP-----DVVSFRSTWVKRIQENKQKWKERAASGITNQMS--	509
HSPDE1C	DAKRSGVKTS GSEG SAPINN SVISVDYKSFKATWTEVVHINRERWRAKVPEEKAKKEAE	536
		* *
HSPDE1A	VDIIQONKERWK--ELAAQEARTSSQKCEFIHQ-----	535
HSPDE1B	IDELSPCEE EAP--PSPAEDHNQNGNLD-----	536
HSPDE1C	EKARLAAEEQKEMEAKSQAE EGASGKA EKKTSGETKNQVNGTRANKSDNPRGKNSKA EK	596
	 : :
HSPDE1A	-----	
HSPDE1B	-----	
HSPDE1C	SSGEQOONGDFKDGKNKTKDKDHNSIGNDSKKTDDSQE	634

Figure 2



Figure 3

PDE 1A
Subtypes

Bovine



Bovine



Human



Murine



Human



Figure 4A

N-terminal sequences of PDE1A splice variants

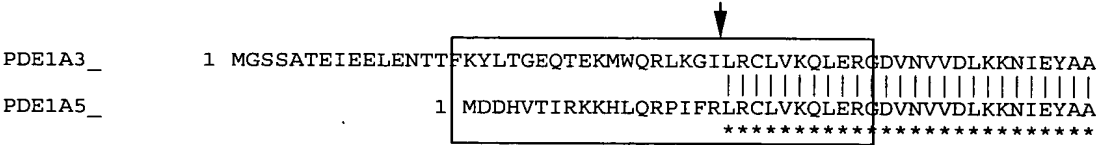


Figure 4B

N-terminal sequences of PDE1B splice variants

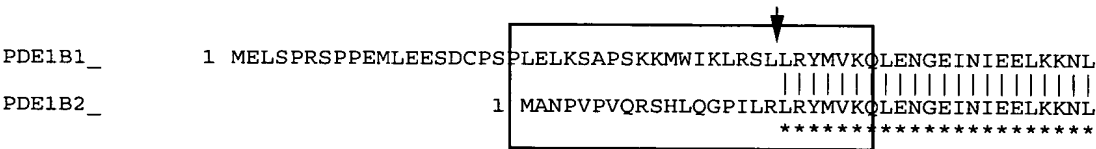


Figure 4C

Comparison of the CaM binding domains of the PDE1A1 and PDE1B2 splice variants

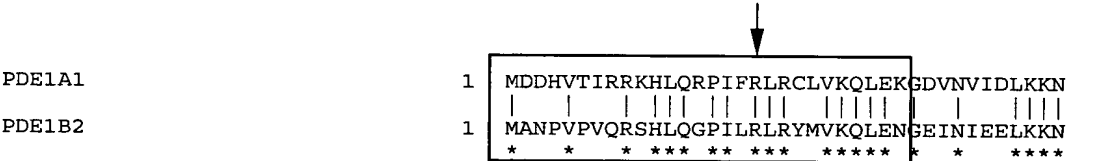


Figure 4D

Comparison of the CaM binding domains of the PDE1A2 and PDE1B1 splice variants.

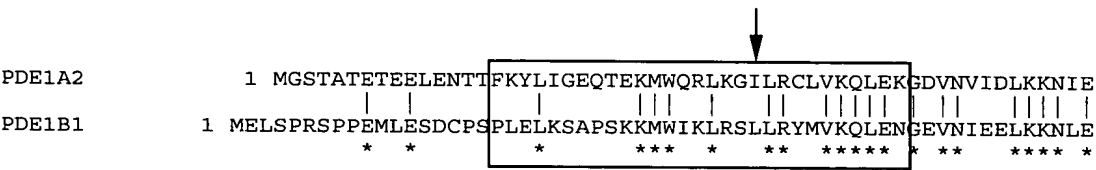


Figure 5

